User Manual

IP Phone HybSys 5000

Version 1.0

1. Introduction *3*

1.1 Components **3**

1.2 Flexible Function **4**

1.3 Key Function **5**

2 Product Installation *6*

2.1 Installation **6**

2.2 Typical Product network connecting Diagrams **6**

3 IP Phone Configuration *7*

3.1 Memory key **7**

3.2 Screen display setting **8**

3.3 Volume Setting **9**

3.4 Greeting Message Setting **9**

3.5 Language Setting **10**

3.6 SIP Setting **10**

3.7 Network Setting **11**

3.8 Ring Type Setting **12**

3.9 Voice memo **12**

3.10 Reboot system **12**

4 Check the Callers Record *13*

5 Voice Record *13*

5.1 Voice Memo **13**

5.2 Voice record while calling **13**

5.3 Listen the voice record **13**

6 Making Call *13*

6.1 Multi-line calling out **14**

6.2 Speed dial **14**

6.3 Transfer **14**

6.4 Three way conference **14**

7 Web configuration *14*

7.1 Wizard **14**

7.2 Network Setting **16**

7.3 SIP Setting **20**

1. Introduction

Welcome to select our IP Phone and thanks for your trust and support to our company. We sincerely hope you can enjoy the convenience and capabilities brought forward by our products.

IP Phone provides more value-added functions than normal phone. Our IP phone guarantees rich functions and crystal voice quality at mass-affordable price, which is fully compatible with SIP industry standard and able to interoperate with most SIP compliant devices and software on the market.

This manual provides the information on basic operations and functions for IP Phone, which will assist users the fast access to learn basic functions and be familiar with operating the unit.

⚠ CAUTION

Although the adapter of IP Phone is compliant with UL standard, please do not attempt to use other different power adapter or cut off power supply during configuration or updating phone. Using unoriginal power adapter may damage IP phone and will invalidate the manufacturer warranty.

1.1 Components

Unpacking the package of IP Phone and please make sure its contents included as below packing list .If you find any part missing or damaged, contact your local distributor.

Components Packing List

Components	**Quantity**
Main Unit	1 Unit
Handset	1 PC
Coil	1 PC
AC Adapter	1 PC
RJ45 data cable	1 PC
User Manual	1 Volume

IP Phone are designed to look like conventional phones, the following photo shows a broad overview of the IP Phone.

1.2 Flexible Function

Key button introduction

1. Callers	2.Redial	3. Hands free	4.Memory key
5.Volume+	6. Volume-	7.Transfer	8.Mute
9.Hold	10.Phonenumber	11. Network	12.Esc
13. Earphone	14. Directory	15. Soft1	16.Soft2
17.Soft3	18.Left	19. Up	20.Right
21.Down	22.Menu		

1.3 Key Function

There are 38 keys on the phone. Definitions of each is stated as below

Key Button	Mode	Definitions
0 -9	In the dial-up mode	Decimal digit number 0-9
	In the keypad configure mode	Swiftly press to display the digit number 0-9 first, then swiftly press to display the English character or others
*	In the dial-up mode	As one part of phone number when call out
	In the call hold mode	Ready to call a third party's number to make three-way (or conference) calling
	In the keypad configure mode	Equal to the dots notation when input IP address Ex. 192.168.10.202
#	In the dial-up mode	Start making a call or send out the number dialed by pressing #
MENU	In the IDLE mode	Enter into menu mode and display the tree menu systems
Callers	In the IDLE mode	Check the Income/Outgoing/Missed calls record
Three flexible Function Keys	In the IDLE mode or In the keypad configure mode	Select the relevant function on the LCD , pressing group function keys to make up/down/enter /edit//quit/save/record/next
HOLD	In the keypad configure mode	Temporarily hold the active call
Transfer	In the keypad configure mode	Transfer the active call to another party
REDIAL	In the dial-up mode	Redial the number last dialed
	In the IDLE mode	Enter into hands-free mode
UP/Down	In the keypad configure mode	Go back to previous item/ Go forward to sub-item
	In the IDLE mode	Continuously thrice press to display WAN Port IP, gateway's IP and the phone number registered on public server
Left/Right	In the keypad configure mode	Choose the item on the menu
	In the idle mode	Show SIP Phone number
Memory Key 1~5	In the IDLE mode	Show the corresponding recorded phone number.
Directory	In the IDLE mode	Access to phone book.
Hand free	In the IDLE mode	Enable Hand free function
Volume adjustment	In the IDLE mode	Adjust the dialing ring volume
	In the hand free mode	Adjust the hand free volume
	In the dial up mode	Adjust the handset volume
Network	In the dial-up mode	Show WAN port IP gateway IP
Mute	In the dial-up mode	Mute an active call
Earphone		Use earphone to receive and make a call

2 Product Installation

2.1 Installation

a) Insert handset cord into the handset jack and the other end to the jack on the left side of the phone

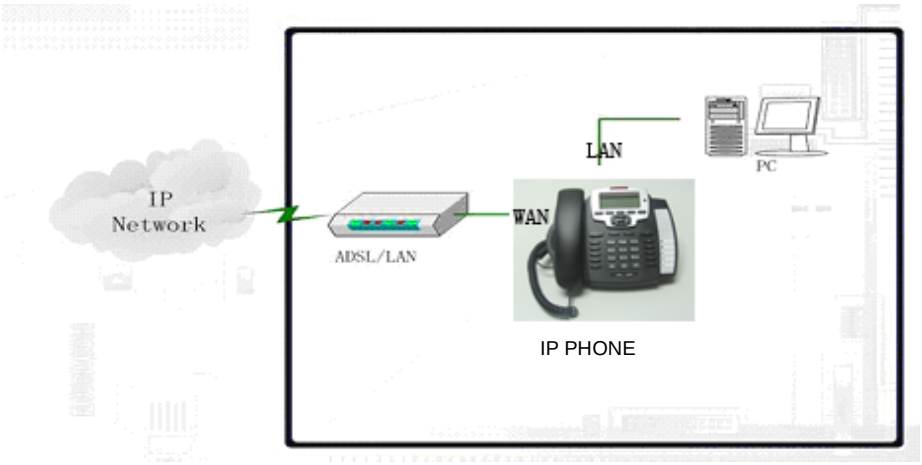
b) Insert the power adapter plug into the phone Power jack and the 2-prong plug end of which into grounded power outlet

c) Connect one end of the network cable to the WAN port, which is indicated as on LCD, and the other end to the internet.

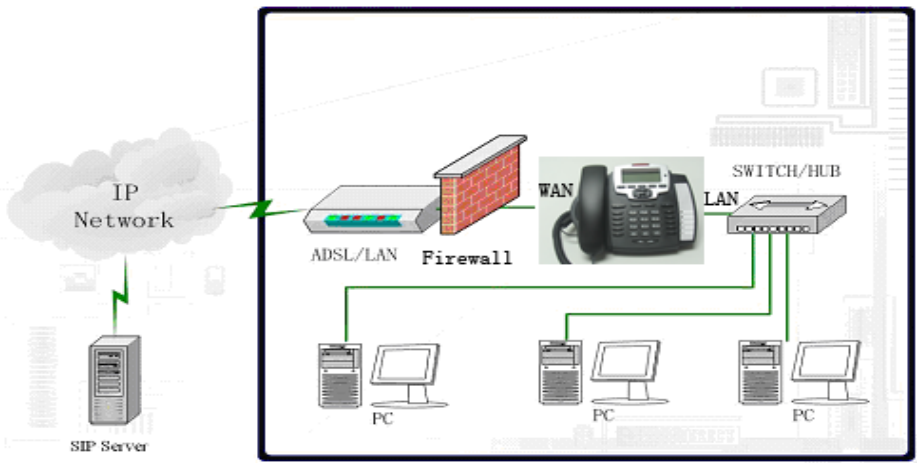
d) If need to set up small LAN network, please connect the unit with your PC through the data able supplied, then you can find the indicator on LCD (PC is not required to set up for making a call)

2.2 Typical Product network connecting Diagrams

Diagrams 1



Diagrams 2



3 IP Phone Configuration

Hereinabove the manual has defined the keypad function. It is easy to config IP phone thru the keypads. HybSys 5000 can be configured without PC, With keypad configuration, it is available to set Network parameter, SIP, Ring tone, and so on. There are ten function items in Menu. Including **Memory Key** , Screen Setting, **Volume Control, Greeting Message** , **Language Setting** , **Sip Setting, Network Setting, Ringer Type,** Voice Memo, Reboot System**.**

By pressing Down to get the WAN Port IP, gateway's IP in in the IDLE mode.

Speed Dial Memory Key Setting

3.1 Memory key

It is the first item in the menu config. There are five memory keys
For installing
insall common use phonenumber for speed dial

3.1.1 Set Speed Dial Memory Key

- press **Menu** Key in Idle mode:
- LCD displays 01 Memory Key
- Select Choose a Memory Key

- Choose one from Memory 1 ~ Memory 5
- Enter the phone number for speed dial.
- Select Save
- Finished.

3.1.2 Dial Speed Dial Memory Key

- Press **Memory 1~5** key in idle mode
- Press Hand free or pick up the handset

3.2 Screen display setting

Screen display setting is the second item in the menu, press Soft key2 to access set mode, including contrast adjustment by left and right button. Press softkey 1 to adjust the brightness by left and right button, there are three options for selecting as OFF, LOW, HIGH.

3.2.1 Login

- Pressing **Menu** Key in Idle mode
- Press the Down Key.
- The LCD displays **02 Screen Setting**

3.2.2 Letter contrast setting

- Select **Enter**. The LCD displays 01 Contrast
- Adjust the letter contrast by pressing Left Key or Right Key
- Select Save
- Finished.

3.2.3 Brightness setting

- Select **Enter**
- Press the Down Key. The LCD displays **02Brightness**
- Select ■ Off, ■ Low, ■ High of the brightness by pressing Left Key or Right Key
- Select Save

- Finished.

3.3 Volume Setting

Ring tone and microphone input/output volume can be adjusted in this menu.

- Pressing **Menu** Key in Idle mode
- Press the Down Key twice. The LCD displays **03 Volume Setting**

3.3.1 Ringer Volume Setting

- Select **Enter**. The LCD displays 01 Ringer Volume
- Adjust the ringer volume by pressing Left Key or Right Key
- Select Save
- Finished.

3.3.2 Call Part Volume

- Select **Enter**. The LCD displays 01 Call Party Volume
- Adjust the call party volume by pressing Left Key or Right Key
- Select Save
- Finished.
-

3.4 Greeting Message Setting

Setting message display on the LCD in idle state. The maximum capacity for greeting message storing is 10 letters. VOIP PHONE is the default display.

Pressing **Menu** Key in Idle mode

- Press the Down Key for three times . The LCD displays 04 Greeting Message
- Select **Edit**
- Enter the greeting message with the Number Key and Letter Key (The LCD will
- display the number pressed while pressing Number Key 0 ~ 9 once and displays the Lowcase letter / Capital letter while pressing twice. * works as the full stop or comma. # works as space.)
- Select Save
- Finished

3.5 Language Setting

HybSys 5000 support Chinese and English. Users can select language what they like.

- Pressing **Menu** Key in Idle mode
- Press the Down Key for four times. The LCD displays 05 Language

3.6 SIP Setting

- Pressing **Menu** Key in Idle mode
- Press the Down Key for five times. The LCD displays 06 SIP Setting

SIP server setting

Synchronously, HybSys 5000 support two SIP service providers (SP) which are called SIP1 and SIP2. User can set his SIP account by keypad.

NOTE: If the register port is not 5060 .You must set it in WEB.

- Select Enter. The LCD display 01 SIP 1
  - SIP 1 setting
    - Select Enter. The LCD display 01 SIP 1 Server
    - Select Edit. Enter the IP domain/ IP address.
    - Select Save
    - Finished.
  - SIP Number Setting
    - Return to 01 SIP 1
    - Press the Down Key once. The LCD displays 02 SIP 1 Number
    - Select Edit. Enter the SIP 1 Number
    - Select Save
    - Finished.
  - SIP Account Setting
    - Return to 01 SIP 1
    - Press the Down Key twice. The LCD displays 03 SIP 1 Account
    - Select Edit. Enter the SIP 1 Account
    - Select Save
    - Finished.
  - SIP Password Setting
    - Return to 01 SIP 1
    - Press the Down Key for three times. The LCD displays 04 SIP 1 Password

- Select Edit with Flexible Function Key. Enter the SIP 1 Password
- Select Save
- Finished.

- Register Setting
  - Return to 01 SIP
  - Press the Down Key for four times. The LCD displays 04 SIP 1 Register
  - Press Left Key or Right Key to select □ ON / □ OFF
  - Select Save
  - Finished.

NOTE: SIP 2 Account Setting can be completed by methods as SIP 1 Account Setting.

3.7 Network Setting

Network setting including WAN port network mode, static DHCP, PPPOE. Selecting static to modify the static IP, DNS, gateway IP. When selecting DHCP, WAN port will get IP from DHCP server automatically. When selecting PPPOE, HybSys 5000 can connect with ADSL modem.

- Pressing **Menu** Key in Idle mode
- Press the Down Key for six times. The LCD displays 07 Network Setting
  - Net Mode Setting
    - Select Enter. The LCD displays 01 Net Mode
    - Press Left Key or Right Key to select □ Static / □ DHCP /□PPPoE
    - Select Save
    - Finished.
  - Static Setting
    - Return to 07 Network Setting.
    - Select Enter and go into WAN port network setting.
    - Press the Down Key and go into the Static Setting.
      The LCD displays 02 Static Setting
    - Select Enter the LCD displays 01 Static IP
    - Select Edit . Enter the Static IP.
    - Select Save
    - Finished.
    - ◆ Return to the Static IP Setting mode. The LCD displays 02 Static Setting
    - Select Enter and press
    - Select Enter. Press the Down Key twice. The LCD displays 04 Static DNS
    - Select Edit . Enter the gateway IP
    - Select Save

- Finished.

- PPPoE Setting

- Return to 07 Network Setting.
- Select Enter and go into WAN port network setting.
- Press the Down Key twice. The LCD displays 03 PPPoE Setting
- Select Enter. The LCD displays 01 Account
- Select Edit . Enter the PPPoE account. Please refer to 3.4
- Select Save
- Finished.

Return to 03 PPPoE Setting

- Select Enter. Press the Down Key. The LCD displays 02 Password
- Select Edit. Enter the PPPoE password.
- Select Save
- Finished.

3.8 Ring Type Setting

HybSys 5000 has 12 types of incoming ring tones for user selecting. Include 4 types of MP3 ring. Using LEFT and RIGHT key to choose the ring tone you like

- Press **Menu** Key in Idle mode
- Press the Up Key. The LCD displays 08 Ring Type.
- Press Left Key or Right Key to select the ring type.(There are 8 default ring types).
- Select Save
- Finished.

3.9 Voice memo

It is the greeting voice when incoming a call, which last 80 seconds. And HybSys 5000 supports user-define. About how to set, please refer to chapter 4.1.

3.10 Reboot system

After rebooting the unit, it will return to the last store.

4 Check the Callers Record

You can check the incoming calls, outgoing calls and missed calls by pressing Callers

5 Voice Record

HybSys 5000 phone makes amelioration on voice record.

5.1 Voice Memo

In idle state, SOFT KEY 3 is for recording. Pick up the handset and press soft key 3 (record) to select voice memo, then record your defined voice to change the voice memo to user–defined, save and quit. Remember to save. User-defined voice memo lasts 80 seconds.

5.2 Voice record while calling

- Press Rec.
- Press Stop to stop the record.

Check the voice record

- Press Rec. The LCD displays Receive Record
- Select Enter

5.3 Listen the voice record

In idle state, press SOFT KEY 3 to record page. Follow what show on LCD to use the soft function key. Process: In leaving message page, you can find new, old voice record.

6 Making Call

The chapter will introduce multi-line using, speed dial, transfer, three way conference
There are three dialing modes:

6.1 Multi-line calling out

HybSys 5000 phone support the maximum 5 line calling out. That is to say the phone can register to 5 different SIP VoIP system synchronously. User can set the memory key from 1 to 5 according to the SIP account for calling out. So user can select the VoIP SP for calling out.
NOTE: HybSys 5000 supports default call-out via SIP1 service

6.2 Speed dial

In IDLE mode, user can place a call without picking up the handset or using SPEAKER by ending the number dialed with SOFT 2 KEY. If ending with soft 3 key, the number dialed will be saved.

6.3 Transfer

While in conversation, press SOFT 2 KEY, then dial the number that you want to reach.
Note: in conversation, SOFT 2 KEY works as the transfer button. While In dial-up state, It is map function. So, in dial-up state, press SOFT 2 KEY to send out the call by domain format.

6.4 Three way conference

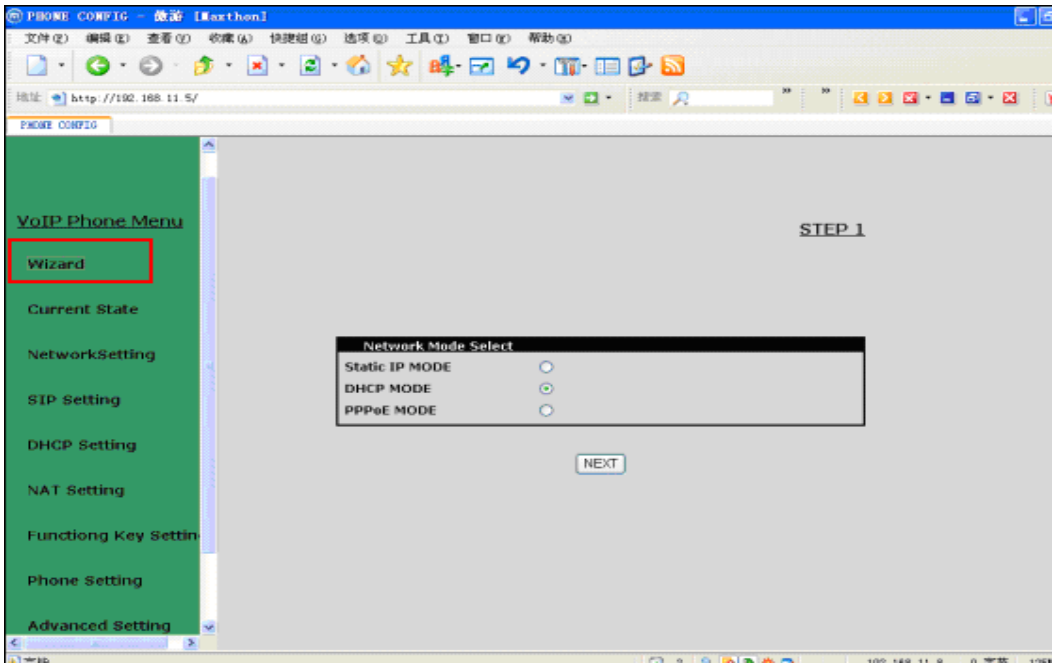
- Press TRANSFER to hold Party B
- Dial Party C's number
- Press SOFT 3 KEY after Party C answer

Note: If HybSys 5000 is the 3-way conference starter, recording function is not available at this moment**.**

7 Web configuration

7.1 Wizard

There is wizard item in the left navigation column. Click Wizard .then the page will show as the below picture (Picture: Wizard 01)

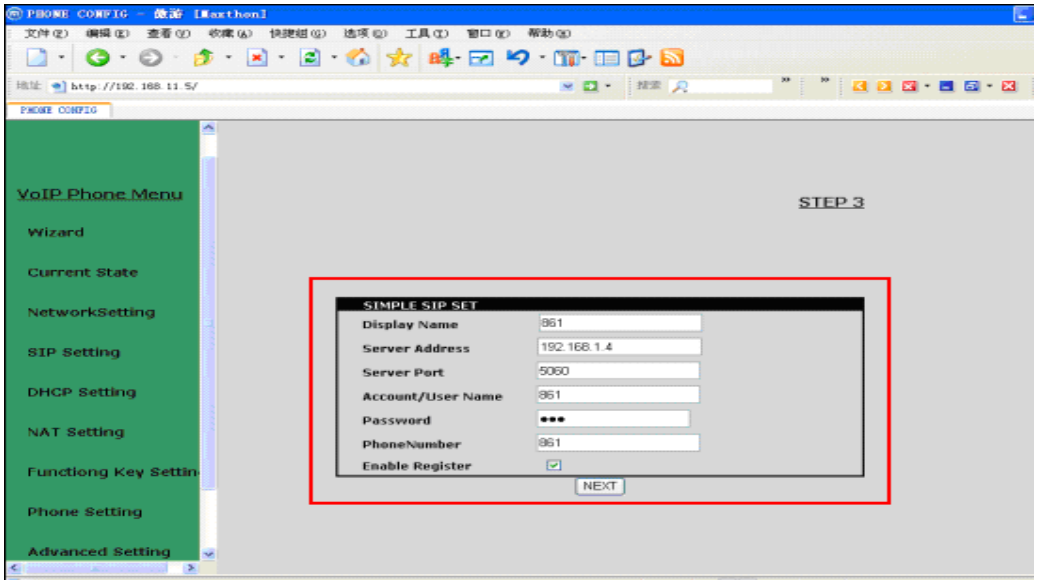


Picture: Wizard 01

Network Mode Select have three mode for choosing.

Take DHCP as example.

Stick DHCP mode check box , then click NEXT. It will enter into another config windows that it is for SIP setting

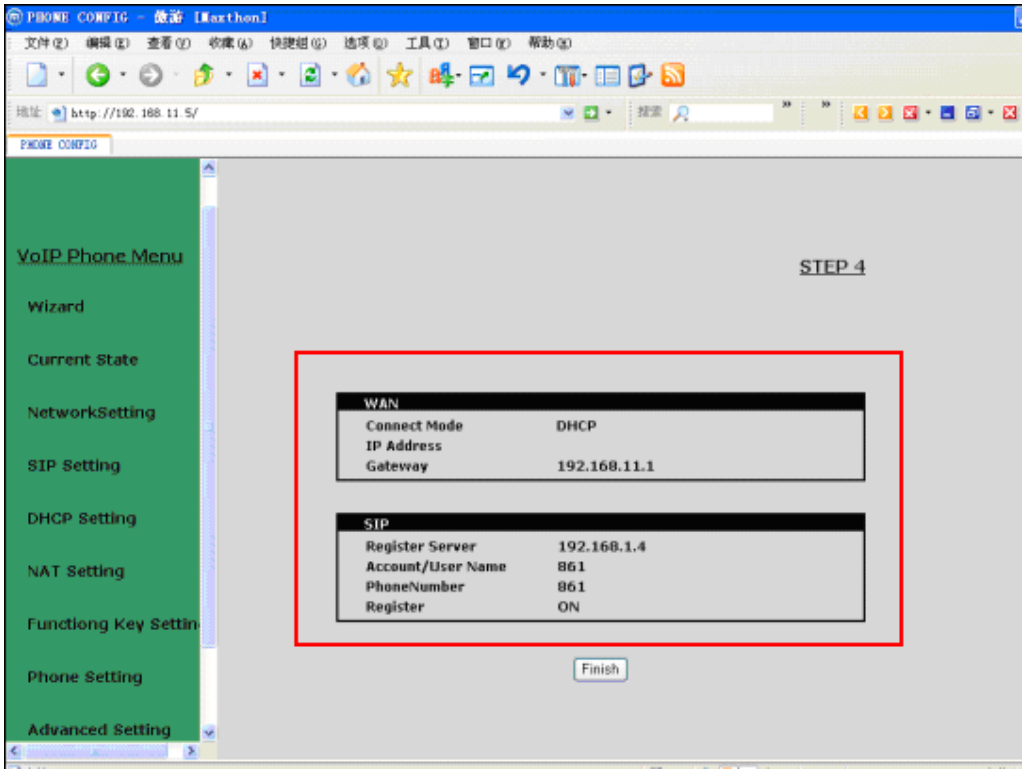


Picture: Wizard 02

Display Name 861	Set display name
Server Address 192.168.1.4	Set SIP register server IP address
Server Port 5060	set SIP singal register port. Default is 5060

Account/User Name 861	Set SIP register server account username（Usually it is the same with the config port number）
Password ●●●	Set password of SIP register server account
PhoneNumber 861	Set assigned phone number
Enable Register ☑	Enable /disable register function. That is to say to use or do not use SIP 1 service

After finishing setting SIP1 account, then click NEXT to go into the following picture.



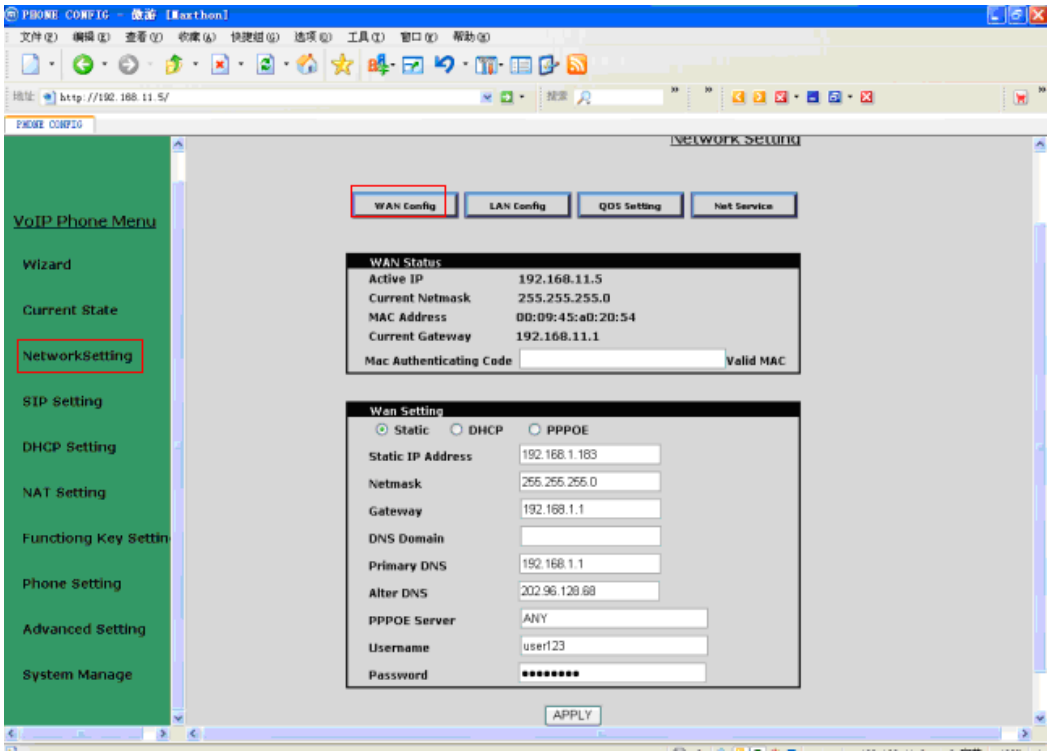
Picture: Wizard 03

In the STEP 4, we must click <Finish> button to end our setting , it will save the config and reboot the phone.

7.2 Network Setting

7.2.1 WAN

Click Networksetting, and wan config, the page will show as the below picture (Picture: Wizard 04)



Picture: Wizard 04

Three models (Static /DHCP/PPPoE) are paratactic. Users can set the right

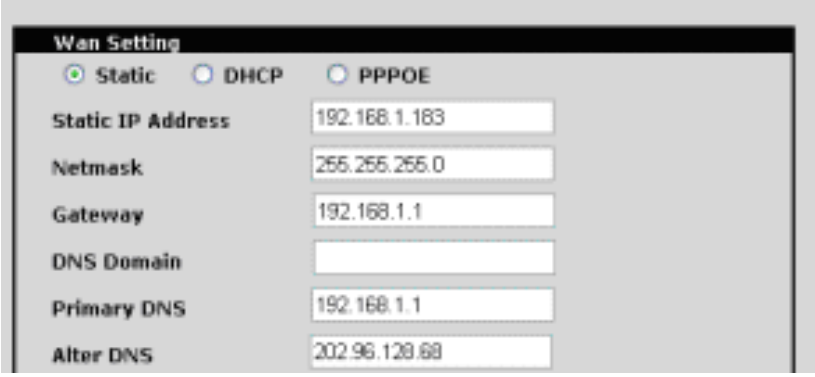
Static : user need to set IP, NETMSK, Gateway IP by manually

DHCP: WAN Port will get IP from DHCP server (like your router)

PPPOE: It is for ADSL internet mode. User need to fill username and password that user get it from SP.

If it display <valid MAC > on the right of Mac Authentic Code in the pic, it means the phone had been certificated.

If it display display <invalid MAC>, it means the phone need a Mac Authenticating Code.(get it from your provider)



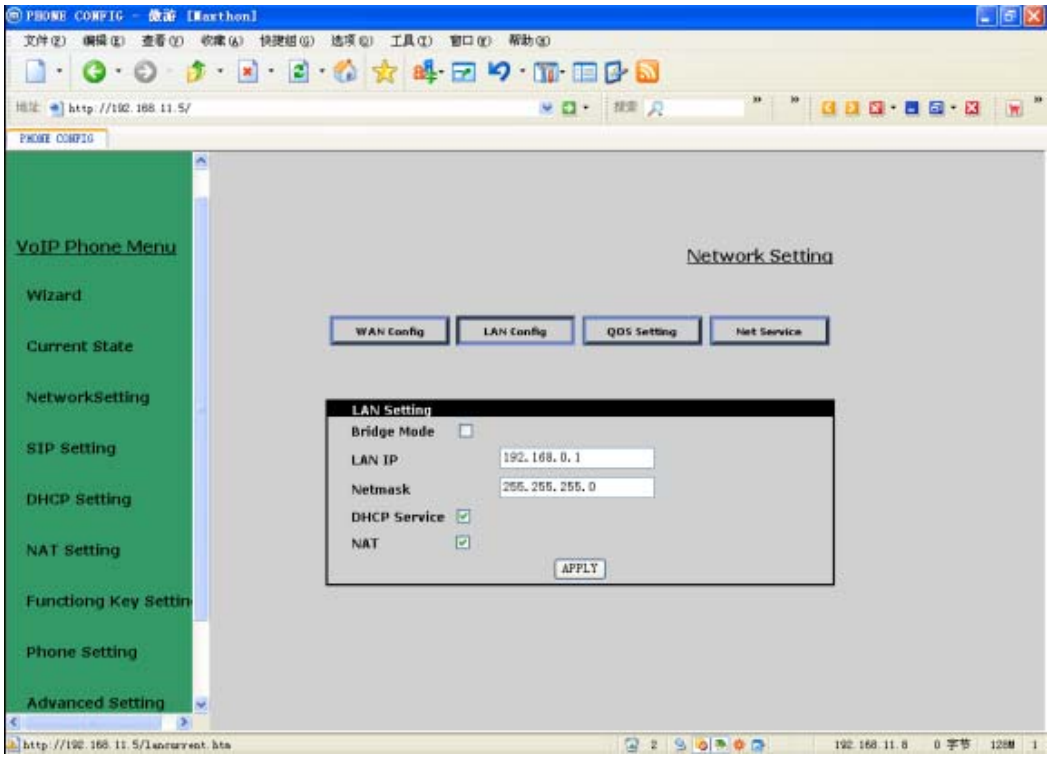
IP Address	WAN IP address
Netmask	Network mask
Gateway	Default gateway IP address
DNS Domain	Option configuration
Primary DNS	IP address for primary Domain Name Server
Alter DNS	Option configuration

Server	If ISP no special requirements, remains default setting
User	Provided by ADSL ISP
Password	Provided by ADSL ISP

Click “Apply” button after finished above setting, IP Phone will auto-config the WAN parameter with immediate effect. The setting of WAN is effective and enables IP Phone to connect to internet.

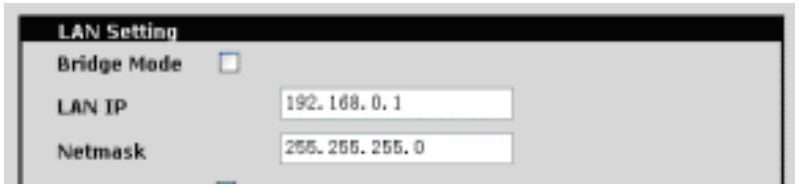
7.2.2 LAN configuration

Click LAN Config, it will enter into Picture: Wizard 05



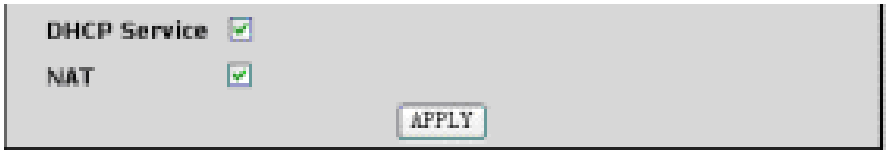
Picture: Wizard 05

- Config LAN: generally config one private IP address



IP	LAN IP address
Netmask	Network Mask

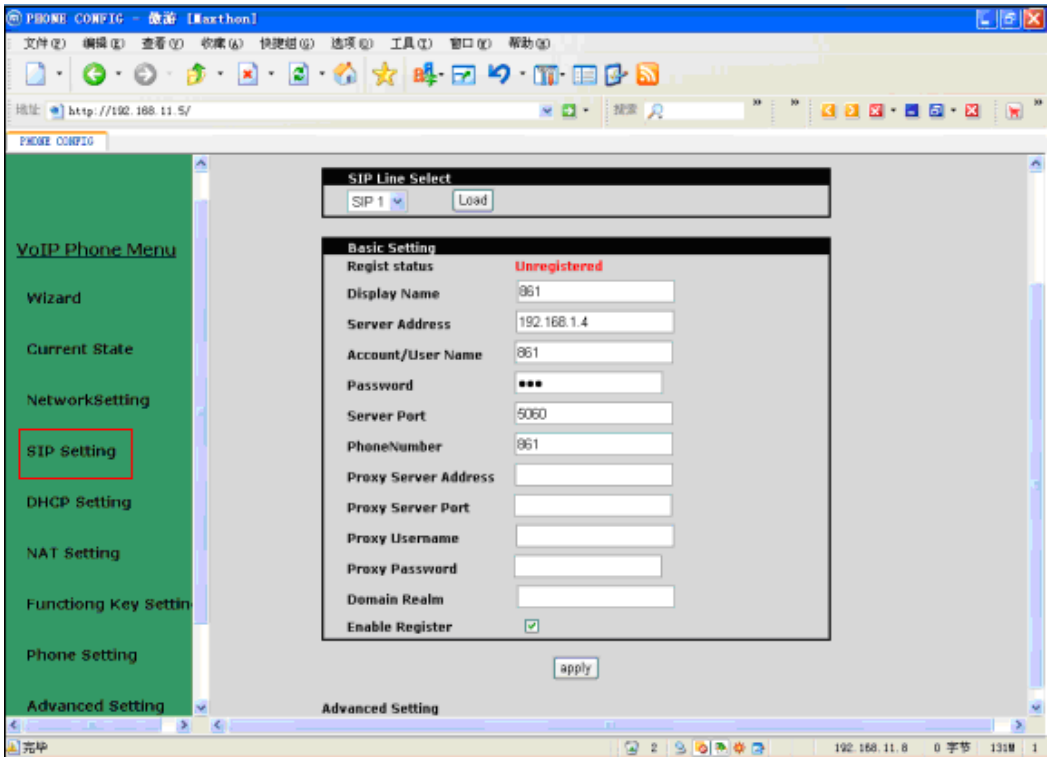
- Start LAN DHCP Service and NAT or do not: default setting is start



Start Bridge Mode or do not（transparent mode）: Once start Bridge Mode, some parts of LAN config will be disabled, and the phone will no longer set IP address for LAN physical port，LAN and WAN will join in the same network；

7.3 SIP Setting

Click SIP Setting, then the page will show as the below picture (Picture: Wizard 06)



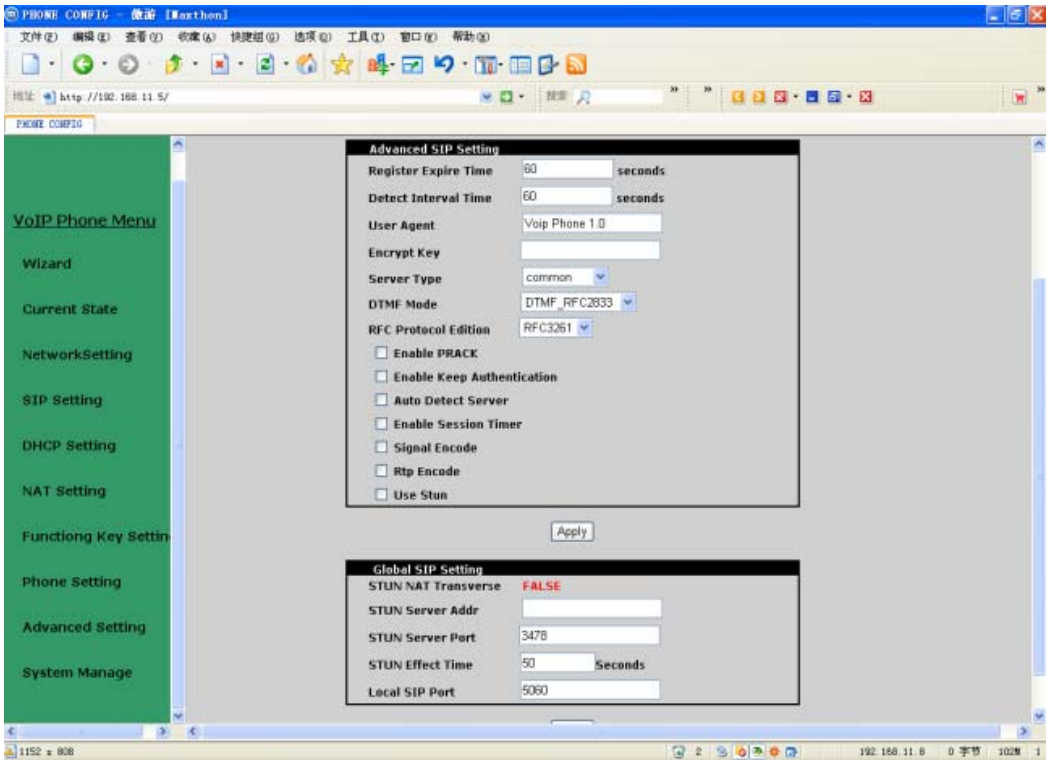
Picture: Wizard 06

Regist status	**SIP register state；if register successfully, show "Registered"(marked red in the pic) in the square bracket，otherwise show Unregistered**
Display name	the called display the name
Register Server address	Set SIP register server IP address
Proxy Server addr	Set proxy server IP address（usually SIP will provide the same configuration of proxy server and register server, if different(such as different IP addresses), then each server's configuration should be modified separately）
Register Server Port	Set SIP register server signal port
Proxy Server Port	Set SIP proxy server signal port
Register Username	Set SIP register server account username（Usually it is the same with the config port number）
Proxy Username	Set the SIP proxy server account username

Register Password	Set password of SIP register server account
Proxy Password	Set password of SIP register account
Domain Realm	Set the sip domain if you have it, otherwise HybSys 5000 will use the proxy server address as sip domain. (Usually it is same with registered server and proxy server IP address).
Phone Number	Set assigned phone number
Enable Register	Configure enable/disable register

SIP advance configuration

Click Advanced Setting, then the page will show as the below picture (Picture: Wizard 07)



Picture: Wizard 07

Register Expire Time 60	set expire time of SIP server register, default is 60 seconds If the register time that server request is not equal to the phone expire time . HybSys 5000 will automatically adjust the time according to the server request.
Detect Interval Time 60	Set the server detect interval time .If phone enable the SIP detect server function .phone will send request to server by the interval time to detect the server answer or not.

User Agent Voip Phone 1.0	User agent , example .Net2phone register.user agent fill in the phone wan port MAC address
Encrypt Key	Fill singnal encrypt key
Server Type common	It is some voip softswitch that had compatible with our phone encryption function.
DTMF Mode DTMF_RFC2833	Set DTMF sending mode. According to the SP ,Select one is right to the server .
RFC Protocol Edition RFC3261	Set phone sip protocol version.To ensure that the phone can communicate with CISCO5300 that use SIP1.0 version.You must select RFC2543. Default config is RFC3261
☐ Enable PRACK	Enable /disable phone support SIP prack function.
☐ Enable Keep Authentication	Enable /disable to send register into with authentication Select this function, HybSys 5000 will not send authentication request to server each time. Server receive authentication register info ,it will send register acknowledgement to the HybSys 5000
☐ Auto Detect Server	Co-work with Server Auto Swap and Detect Interval Time. Select this function, HybSys 5000 will periodically detect whether the public SIP server is available, if the server is unavailable, the HybSys 5000 will switch to the back-up SIP sever, and continue detecting the public sip server. HybSys 5000 will switch back to the primary SIP server if the server is available again.
☐ Enable Session Timer	Enable /disable to support/not support rfc4028；
☐ Signal Encode	Enable /disable signal encryption function
☐ Rtp Encode	Enable /disable voice encryption function
☐ Use Stun	Enable /disable STUN function.
STUN NAT Transverse FALSE	Show stun nat judgement，true means that STUN penetrate through firewall.，false means that STUN can not penetrate through firewall.
STUN Server Addr	Set STUN server address

STUN Server Port 3478	Set SIP STUN server port
STUN Effect Time 50 Seconds	STUN detect NAT type and interval time
Local SIP Port 5060	Set SIP phone local port